

ABSTRACT OF THE DISCLOSURE

The present invention provides an apparatus for converting image data, including a block extraction unit extracts a class tap from a composite signal. A pixel-location-mode output
5 unit determines a pixel location mode from the extracted class tap, and outputs it to a coefficient memory. A coefficient calculation unit acquires a seed coefficient from a seed coefficient memory to determine a predictive coefficient based on a transform method selection signal input from a designation unit, and stores the result into the coefficient
10 memory. The coefficient memory supplies a predictive coefficient corresponding to the pixel location mode to a predictive calculation unit. A block extraction unit extracts a predictive tap from the composite signal, and outputs the result to the predictive calculation unit. The predictive calculation unit outputs a component signal or a transformed component signal based on the predictive tap and the predictive coefficient.